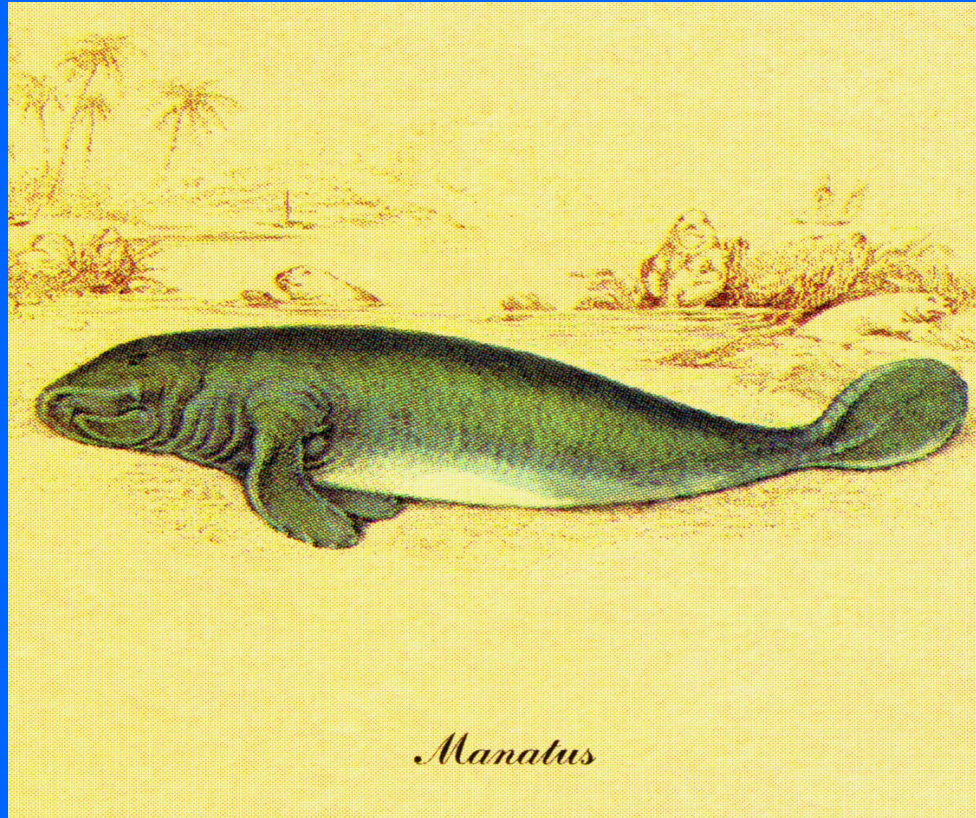


The Manatee: Concerns and Considerations



Manatus









Human Activities: Lethal Takings









Human Activities: Non-lethal Takings







Development Projects and Project-related Impacts





Types of Development Projects

- Boat facilities (including single and multi-slip docks, boat ramps, shipping berths, etc.)
- Waterway deepening projects (including blasting, dredging, etc.)
- Shoreline armoring projects (including bulkheading, rip rap, etc.)
- Discharges and intakes (including fresh and warm water discharges, etc.)
- Other (including mooring dolphins, marker buoys, cable and pipeline crossings, etc.)

The Effects of Development-related Activity on Manatees









Activities That Affect Manatees

- Project-related boat traffic (including tugs, barges, support boats, etc.)
- Blasting, dredging, etc.
- Entanglement (in silt screen, spill containment booms, construction debris, etc.)
- Project-related noise and other harassing factors

Minimizing Impacts

Prior to Development

During Project Implementation



After Project Implementation



WEST INDIAN MANATEE FACT SHEET

- POPULATION:** Approximately 1,000 manatees.
- REPRODUCTION:** Manatees are approximately 2 years old when sexually mature. Females 18 months old calve for the first time. Calving season is from January to March.
- DIET:** Manatees are herbivores, feeding on seagrass, algae, and other aquatic plants. They are known to consume up to 40 pounds of food per day.
- WEIGHT:** Adult manatees weigh between 1,000 and 1,500 pounds.
- LENGTH:** Adult manatees are 8 to 10 feet long.
- HAIR:** Manatees have a thick, leathery skin that is covered in small, hair-like bristles.
- TEETH:** Manatees have a pair of large, flat, grinding teeth called molaria.
- FOUR:** Manatees are known for their slow, graceful movements in the water.

Florida Department of Natural Resources
Bureau of Marine Research
3301 Gulf Breeze Drive
Gulf Breeze, Florida 32561
Phone: 904/241-1111
Fax: 904/241-1112

MANATEE BASICS FOR BOATERS

IT'S IMPORTANT TO KNOW:
Manatees are protected under federal law.
It is illegal to harass, harm, or kill a manatee.

IF YOU SEE A MANATEE:
Do not approach or feed the animal.
Give the animal at least 100 yards of space.



CAUTION: Manatees are vulnerable to boat strikes. If you see a manatee, slow down and give it plenty of space.



FOR MORE INFORMATION:
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Gulf Breeze, Florida 32561
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Fax: 904/241-1112



Consultation Process

Authorities

- Endangered Species Act of 1973, as amended
- Marine Mammal Protection Act of 1972, as amended



